

07.2-190 Cleaning, adjusting carburetor

Testing and adjusting values

Float needle valve	2.25
Sealing ring for float needle valve	1.5 mm
Float level (ball pushed in)	16–17 mm

Oil type/filling capacity

Model 115

Oil for air piston dashpot	Viscosity SAE	Engine oil ¹⁾ ₂₎ specified for season
	Filling capacity	approx. 60 cc

Model 123

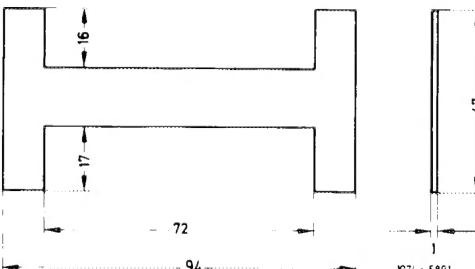
Carburetor version	With red plug in closing cover	With yellow plug in closing cover
Oil for air piston dashpot	Viscosity SAE	Summer opera- tion engine oil ¹⁾ Winter operation ATF ³⁾
	Filling capacity	approx. 60 cc ³⁾

¹⁾ Refer to specifications for service products sheet 224 page 1.

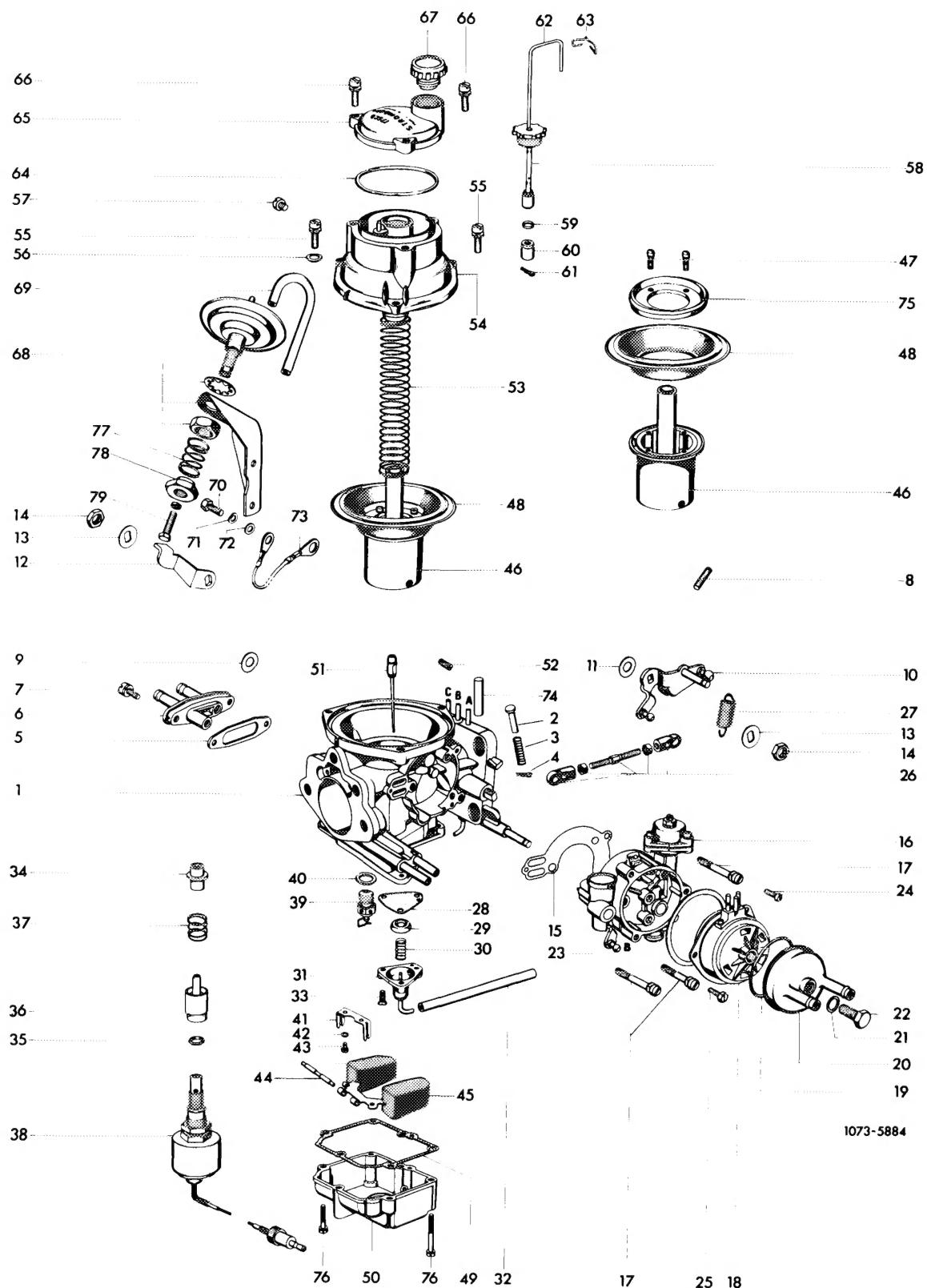
²⁾ During extended, cold periods below -20°C ATF (refer to specifications for service products sheet 236.2 and 236.4).

³⁾ Refer to specifications for service products sheet 236.2 and 236.4.

Self-made tool

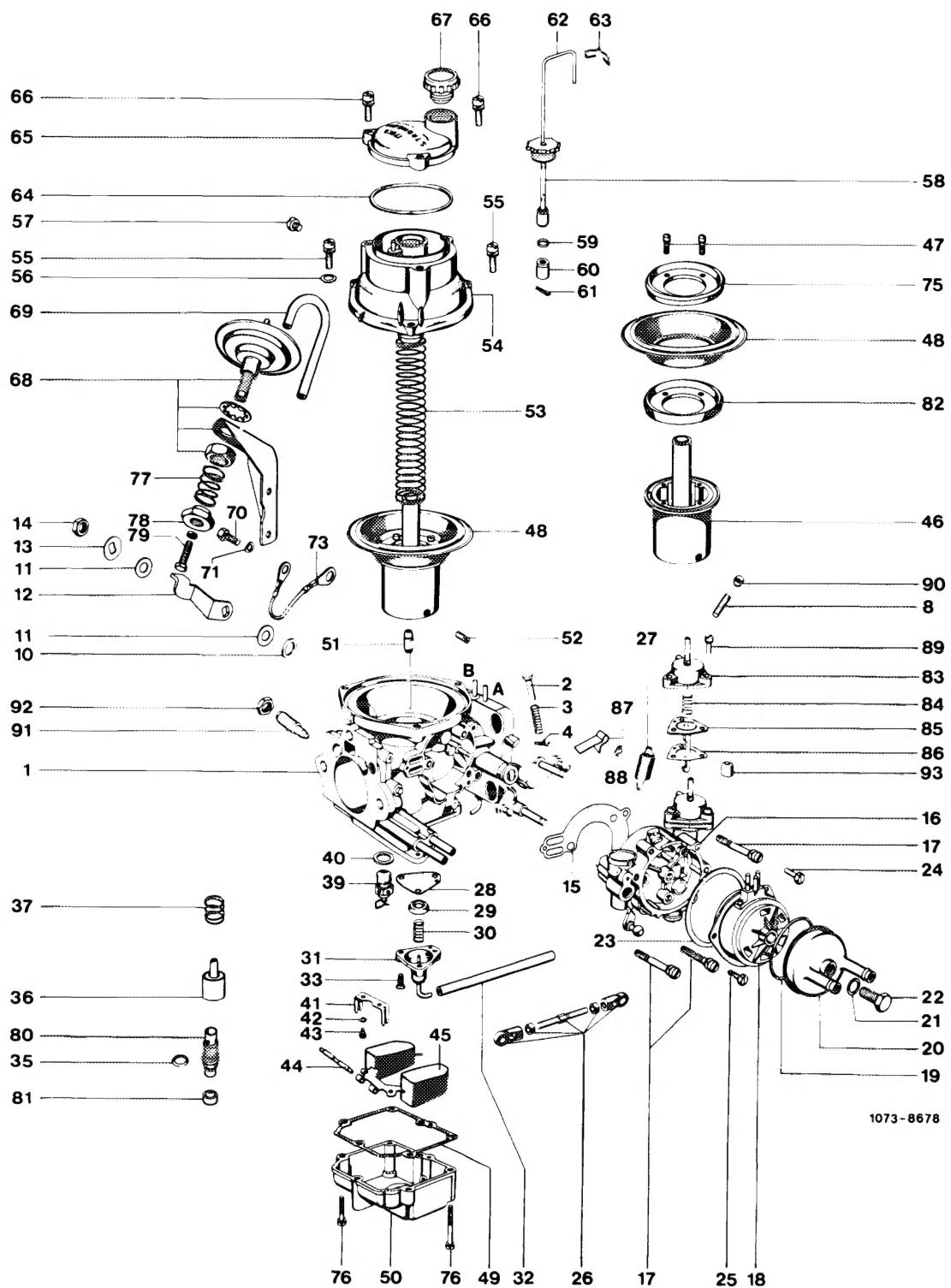
Gage for measuring float level	
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A. Stromberg carburetor 175 CDT in model 115



A	Vacuum connection for vacuum governor, on USA version for switchover valve: a Ignition switchover b Throttle valve lift	19	Rubber gasket	50	Float chamber
		20	Coolant connection cover	51	Nozzle needle
		21	Aluminum sealing ring	52	Stud for fastening nozzle needle
		22	Hex. head screw	53	Compression spring
		23	Insulating gasket	54	Carburetor cover
		24	Hex. head screw	55	Fillister head screw
		25	Hex. head screw	56	Washer
		26	Choke connecting rod (complete)	57	Cylinder head screw
		27	Draw spring	58	Dashpot for air piston
		28	Diaphragm for fuel return valve	59	Washer
		29	Spring retainer	60	Dashpot piston
		30	Compression spring	61	Locking spring
		31	Valve cover	62	Capillary tube
		32	Vacuum hose	63	Spring clamp
		33	Countersunk screw	64	Rubber sealing ring
		34	Guide bushing for fuel nozzle (pressed in)	65	Closing cover
		35	Rubber sealing ring	66	Fillister head screw
		36	Temperature-controlled compensating element with fuel nozzle	67	Closing plug
		37	Compression spring	68	Vacuum control unit with fastening elements
		38	Idle speed shutoff valve	69	Vacuum hose
		39	Float needle valve	70	Hex. head screw
		40	Sealing ring	71	Snap ring
		41	Holder for float shaft	72	Washer
		42	Snap ring	73	Grounding cable
		43	Fillister head screw	74	Rubber closing cap
		44	Float shaft	75	Holding disk
		45	Float	76	Fillister head screw
		46	Air piston	77	Compression spring
		47	Fillister head screw	78	Adjusting nut
		48	Air piston diaphragm	79	Pressure screw
		49	Gasket for float chamber		

B. Stromberg carburetor 175 CDTU in model 123



A	Vacuum connection for preheating of intake air (blue colored ring)	31	Valve cover	63	Spring clamp
		32	Vacuum hose	64	Rubber sealing ring
		33	Countersunk screw	65	Closing cover
		35	Rubber sealing ring	66	Fillister head screw
		36	Temperature-controlled compensating element with fuel nozzle	67	Closing plug
		37	Compression spring	68	Vacuum control unit with fastening elements
1	Carburetor housing	39	Float needle valve	69	Vacuum hose
2	Tickler	40	Sealing ring	70	Hex. head screw
3	Compression spring	41	Holder for float shaft	71	Snap ring
4	Locking spring	42	Snap ring	73	Grounding cable
8	Idle speed adjusting screw	43	Fillister head screw	75	Holding disk
10	Sealing ring	44	Float shaft	76	Fillister head screw
11	Spring washer	45	Float	77	Compression spring
12	Throttle valve lever (rpm increase)	46	Air piston	78	Adjusting nut
13	Lock washer	47	Fillister head screw	79	Compression screw
14	Hex. nut	48	Air piston diaphragm	80	Fuel adjusting screw
15	Gasket for choke housing	49	Gasket for float chamber	81	Protective cap
16	Choke housing	50	Float chamber	82	Supporting ring
17	Fillister head screw	51	Nozzle needle	83	Pulldown cover
18	Choke cover	52	Stud for fastening nozzle needle	84	Compression spring
19	Rubber gasket	53	Compression spring	85	Pulldown diaphragm with rod
20	Coolant connection cover	54	Carburetor cover	86	Gasket
21	Aluminum sealing ring	55	Fillister head screw	87	Drag lever
22	Hex. head screw	56	Washer	88	Fuse
23	Insulating gasket	57	Fillister head screw	89	Fillister head screw
24	Hex. head screw	58	Dashpot for air piston	90	Fuse cap
25	Hex. head screw	59	Washer	91	Circulating air adjusting screw
26	Choke connecting rod (complete)	60	Dashpot piston	92	Counternut
27	Draw spring	61	Locking spring	93	Dust sleeve
28	Diaphragm for fuel return valve	62	Capillary tube		
29	Spring retainer				
30	Compression spring				

Cleaning

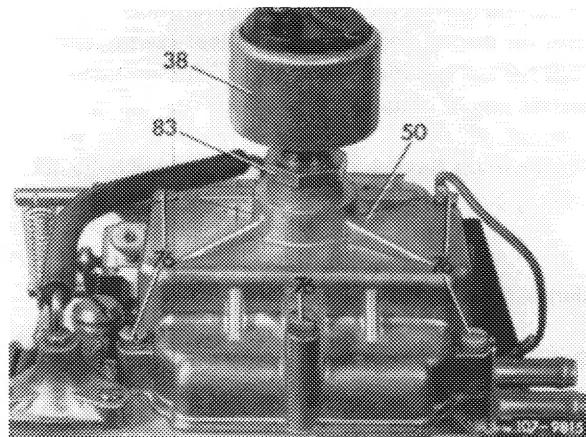
1 Remove carburetor (07.2-194).

2 Clean carburetor well externally.

3 Remove float chamber.

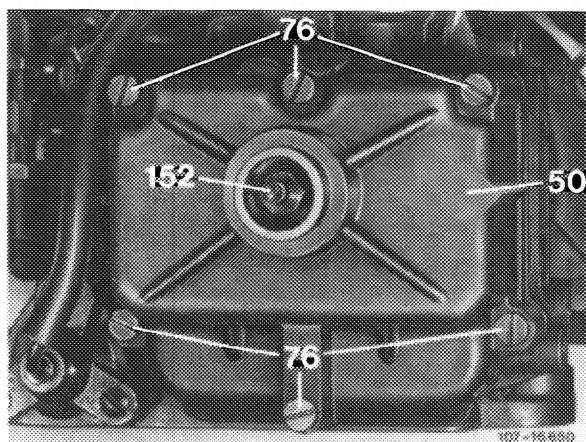
For this purpose, on **model 115**, loosen hex. nut (83) and unscrew idle speed shutoff valve (38).

Unscrew fillister head screws (76) and remove float chamber (50).



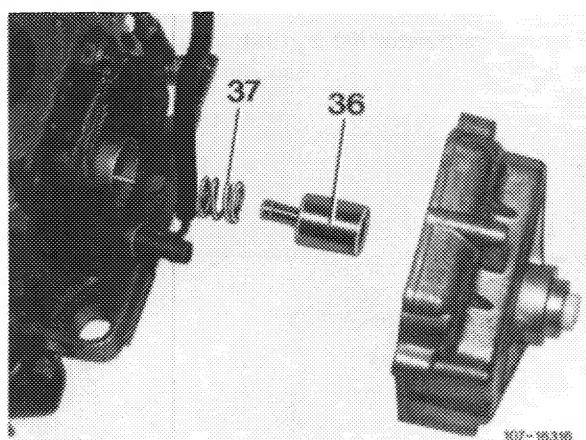
For this purpose, on **model 123**, unscrew fuel adjusting screw (152).

Unscrew fillister head screws (76) and remove float chamber (50).



4 Remove temperature-controlled compensating element with fuel jet (36) and compression spring (37).

5 Clean float chamber and temperature-controlled compensating element with fuel jet.

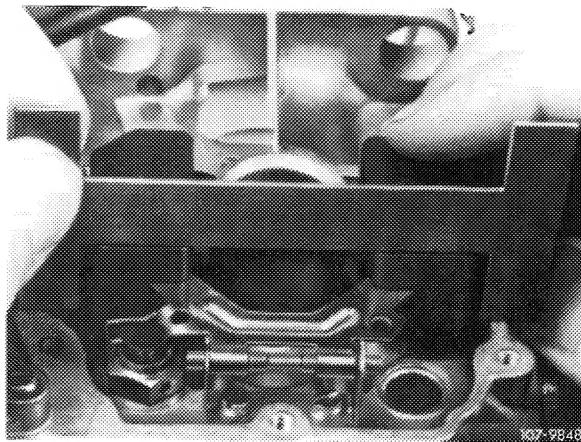


Adjustment

6 Measure float level and adjust, if required.

Carefully push float down until **spring-loaded ball of float needle valve (39)** is completely pushed in.

Check float level with measuring gage or slide gage at highest points of float.



If a correction of float level is required, check first whether sealing ring (173) under float needle valve (39) has the specified thickness of 1.5 mm. Renew sealing ring, if required.

Then correct float level with float removed by bending lug (arrow).

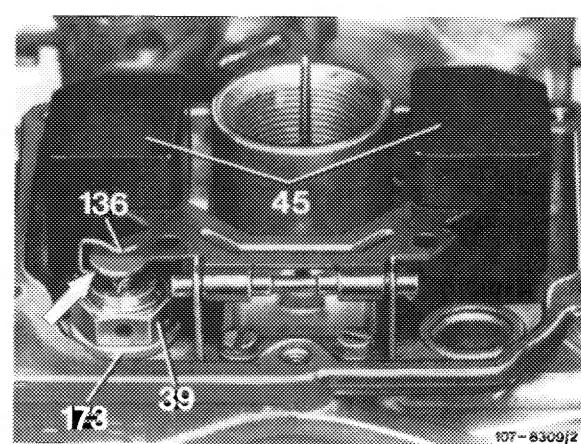
Bending device

Bending toward float needle valve = increasing float level

Bending away from float needle valve = reducing float level

Attention!

When bending lug, make sure that lug pushes **vertically** on float needle. The two solid floats should be **horizontally** in relation to measuring gage. Re-align, if required.



7 Attach float chamber in vice versa sequence of item 3 and 4.

Attention!

During assembly, renew gasket float chamber. Check rubber sealing ring in temperature-controlled compensating element and for idle speed shutoff valve (model 115) as well as in fuel adjusting screw (model 123), renew if required.

8 Install carburetor (07.2-194).

9 Check dashpot oil level in supply tank and correct, if required.

For this purpose, unscrew closing plug. The dashpot oil should reach up to lower threaded edge (arrow) of filler hole.

10 Adjust idle speed (07.2–100), adjust choke (07.2–125).

